

ABSTRACT OF THE DISCLOSURE

A method of automatically re-provisioning a network element in adaptation to a failure comprises the computer-implemented steps of identifying a network element that has failed; selecting a substitute network element from among a pool of one or more available network elements; receiving connection configuration information from the identified network element; and, based on the connection configuration information, re-configuring the substitute network element and one or more switch devices associated with the identified network element, wherein the re-configuring causes the one or more switch devices to change one or more connections from the identified network element to the substitute network element.